

Title (en)

HYBRID TURBO ELECTRIC AERO-PROPULSION SYSTEM CONTROL

Title (de)

STEUERUNG EINES HYBRIDEN TURBOELEKTRISCHEN LUFTANTRIEBSSYSTEMS

Title (fr)

COMMANDE DE SYSTÈME DE PROPULSION AÉRONAUTIQUE HYBRIDE TURBO-ÉLECTRIQUE

Publication

**EP 2971594 B1 20200108 (EN)**

Application

**EP 13861526 A 20131120**

Priority

- US 201361783621 P 20130314
- US 2013070922 W 20131120

Abstract (en)

[origin: WO2014158240A2] A control for a hybrid turbo electric aero-propulsion system prioritizes and optimizes the operating parameters, according to a desired optimization objective, for and across a number of different control optimization subsystems of the hybrid turbo electric aero-propulsion system. The control subsystems may include, for example, a propulsion control optimization subsystem and a power plant control optimization subsystem. The optimizations may be based on a system model, which is developed and updated during the operation of the hybrid turbo electric aero-propulsion system.

IPC 8 full level

**B64D 27/02** (2006.01); **B64C 11/30** (2006.01); **B64D 27/10** (2006.01); **B64D 27/24** (2006.01); **B64D 31/06** (2006.01); **F01D 7/02** (2006.01); **F01D 15/10** (2006.01); **F01D 21/00** (2006.01); **F02C 7/32** (2006.01); **F02C 9/20** (2006.01); **F02K 1/18** (2006.01)

CPC (source: EP US)

**B64C 11/305** (2013.01 - EP US); **B64D 27/026** (2024.01 - EP); **B64D 27/10** (2013.01 - US); **B64D 27/24** (2013.01 - EP US); **B64D 31/06** (2013.01 - EP US); **F01D 7/02** (2013.01 - EP US); **F01D 15/10** (2013.01 - EP US); **F01D 21/00** (2013.01 - EP US); **F02C 7/32** (2013.01 - EP US); **F02C 9/20** (2013.01 - EP US); **F02K 1/18** (2013.01 - EP US); **B64D 27/026** (2024.01 - US); **F05D 2270/20** (2013.01 - EP US); **F05D 2270/304** (2013.01 - EP US); **Y02T 50/60** (2013.01 - EP US); **Y10S 903/93** (2013.01 - EP US)

Citation (examination)

US 2012209456 A1 20120816 - HARMON FREDERICK G [US], et al

Cited by

EP3950506A1; US11754001B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2014158240 A2 20141002**; **WO 2014158240 A3 20141120**; CA 2902461 A1 20141002; CA 2902461 C 20210406; EP 2971594 A2 20160120; EP 2971594 B1 20200108; US 2015367950 A1 20151224; US 9586690 B2 20170307

DOCDB simple family (application)

**US 2013070922 W 20131120**; CA 2902461 A 20131120; EP 13861526 A 20131120; US 201314127409 A 20131120